Muscle Mass, Protein Concentration and Protein Content in Time Zero Control Animals

Muscle	Mass mg	Normalized Mass mg/100 g wt	Protein Concentration mg/mg muscle	Normalized Protein Content mg/100 g wt
Soleus	27.1 ± 0.8	43.7 ± 0.8	0.129 ± 0.005	5.5 ± 0.4
Plantaris	49 ± 3	79 ± 3	0.133 ± 0.002	10.3 ± 0.5
Gastrocnemius	239 ± 6	386 ±10	0.125 ±0.002	47.7 ± 1.4
EDL	29.1 ± 0.8	46.9 ± 0.8	0.134 ± 0.003	6.3 ± 0.3
Tibialis	112 ± 4	181 ± 3	0.123 ± 0.002	19.2 ± 1.1

Animals were randomly selected from the same shipment of animals as the flight animals and maintained in cages at KSC during the preflight time period that the flight animals were in their AEM and were killed at launch+2h (2100 h EDT, September 12, 1991). Muscles were excised and weighed and then processed for analysis of protein content. Normalized data are calculated from the total mass or protein content and the body weight at the time of muscle excision. Samples were prepared for protein analysis (Tischler et al J. Appl. Physiol. 74:2161, 1993) by the Lowry procedure (Lowry et al J. Biol. Chem. 193:265, 1951).

*EDL = extensor digitorum longus